Synthetic Jets CFD Validation (Quality and Control)

Fidelity of Experiments/Measurements

Optimal (accurate) technique

Are certain techniques more accurate than others in certain regions? How can we reconcile experimental differences? How do we know which technique is best/correct?

Fidelity of CFD

Numerical/algorithm issues

(grid, spatial accuracy, temporal accuracy)

Modeling issues

For future workshops, how important is it to have all participants use a common grid?

What is Important?

How does one gauge the "goodness" of a time-accurate computation? What are the most useful metrics?

Next Steps for Improved Experiments & CFD

Validation Unit Problems

"Best" CFD Approach

How do we compare unless everyone is running the exact same problem in CFD (same BCs, same phase definition)?